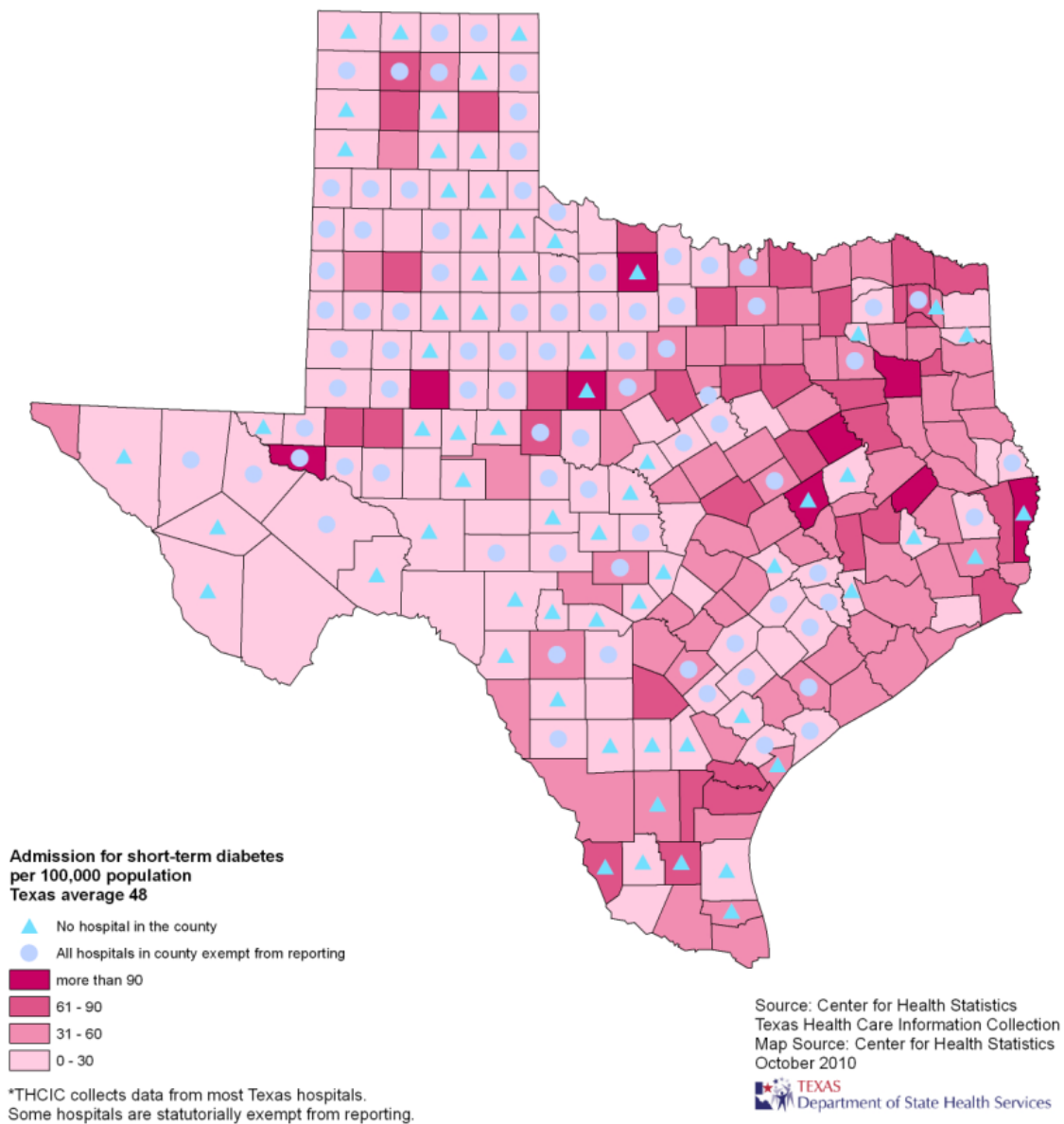# 11. Diabetes Short-Term Complication

Diabetes is a disease in which the body does not produce or properly use insulin. Insulin is a hormone that is needed to convert sugar into energy needed for daily life. Short-term complications are a result of extreme fluctuations in blood sugar levels and can be quite serious. Extreme dizziness and fainting can indicate hypoglycemia (low blood sugar) or hyperglycemia (high blood sugar), and if not brought under control, seizures, shock or coma can occur. Diabetics need to monitor their blood sugar levels carefully and adjust their diet and/or medications accordingly. Regular and careful monitoring and management of diabetes in the outpatient setting can often reduce the risk of developing complications from the disease. Patient compliance with treatment plans is essential to the preventive management of diabetes. Cultural and linguistic factors may affect interactions with health care providers and the System13.

Admission for short-term diabetes per 100,000 population
Texas average 48

▲ No hospital in the county
● All hospitals in county exempt from reporting
■ more than 90
■ 61 - 90
■ 31 - 60
□ 0 - 30

*THCIC collects data from most Texas hospitals.
Some hospitals are statutorily exempt from reporting.

Source: Center for Health Statistics
Texas Health Care Information Collection
Map Source: Center for Health Statistics
October 2010

TEXAS
Department of State Health Services

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
State of Texas	9,017	17,584,200	51.28	49.28	47.66	(46.68, 48.65)
Anderson	34	47,168	72.08	50.08	67.49**	(48.58, 86.39)
Andrews	Less than 5					
Angelina	36	62,551	57.55	47.62	56.67	(39.83, 73.50)
Aransas	7	20,384	34.34	44.35	36.30	(5.75, 66.86)
Archer	8	7,266	110.10	47.41	108.89**	(59.39, 158.39)
Armstrong	Less than 5					
Atascosa	27	32,507	83.06	48.73	79.91**	(56.83, 103.00)
Austin	5	20,675	24.18	47.16	24.04	(0.00, 53.47)
Bailey	Less than 5					
Bandera	Less than 5					
Bastrop	29	55,236	52.50	48.91	50.33	(32.65, 68.01)
Baylor	Less than 5					
Bee	13	27,029	48.10	51.35	43.92	(19.26, 68.58)
Bell	122	183,259	66.57	49.42	63.16**	(53.51, 72.81)
Bexar	650	1,157,792	56.14	49.14	53.56**	(49.71, 57.41)
Blanco	Less than 5					
Borden	Less than 5					
Bosque	Less than 5					
Bowie	47	72,389	64.93	47.75	63.75**	(48.12, 79.38)
Brazoria	125	216,445	57.75	49.58	54.61	(45.74, 63.48)
Brazos	57	127,316	44.77	55.61	37.74	(26.83, 48.66)
Brewster	Less than 5					
Briscoe	Less than 5					
Brooks	5	5,651	88.48	46.33	89.53	(32.76, 146.31)
Brown	17	30,700	55.37	47.03	55.20	(31.02, 79.38)
Burleson	7	13,367	52.37	46.33	52.99	(16.08, 89.91)
Burnet	Less than 5					
Caldwell	14	27,907	50.17	48.34	48.65	(23.64, 73.67)
Calhoun	Less than 5					
Callahan	12	10,971	109.38	46.03	111.41**	(70.53, 152.29)
Cameron	102	264,059	38.63	48.99	36.97*	(28.89, 45.05)
Camp	6	9,386	63.92	46.64	64.26	(20.35, 108.17)
Carson	Less than 5					
Cass	Less than 5					
Castro	Less than 5					

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Chambers	Less than 5					
Cherokee	15	37,336	40.18	47.48	39.67	(17.85, 61.50)
Childress	Less than 5					
Clay	Less than 5					
Cochran	Less than 5					
Coke	Less than 5					
Coleman	Less than 5					
Collin	173	524,278	33.00	50.10	30.88*	(25.21, 36.55)
Collingsworth	Less than 5					
Colorado	Less than 5					
Comal	32	80,520	39.74	47.60	39.15	(24.31, 53.99)
Comanche	Less than 5					
Concho	Less than 5					
Cooke	11	30,030	36.63	47.27	36.33	(11.95, 60.71)
Coryell	20	56,070	35.67	52.31	31.97	(15.01, 48.94)
Cottle	Less than 5					
Crane	Less than 5					
Crockett	Less than 5					
Crosby	Less than 5					
Culberson	Less than 5					
Dallam	Less than 5					
Dallas	961	1,729,044	55.58	49.69	52.44**	(49.30, 55.57)
Dawson	Less than 5					
Deaf Smith	Less than 5					
Delta	Less than 5					
Denton	181	440,803	41.06	51.33	37.51*	(31.40, 43.61)
Dewitt	Less than 5					
Dickens	Less than 5					
Dimmit	Less than 5					
Donley	Less than 5					
Duval	5	9,340	53.53	47.78	52.53	(9.04, 96.02)
Eastland	5	14,769	33.85	46.01	34.50	(0.00, 69.74)
Ector	73	92,876	78.60	48.89	75.38**	(61.75, 89.02)
Edwards	Less than 5					
Ellis	77	105,148	73.23	49.58	69.25**	(56.52, 81.97)
El Paso	257	519,684	49.45	49.22	47.11	(41.36, 52.85)

Source: Texas Health Care Information Collection. Texas Hospital Inpatient Discharge Public Use Data File, 2008.

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Erath	19	27,307	69.58	50.34	64.80	(40.02, 89.58)
Falls	8	13,490	59.30	46.35	59.99	(23.25, 96.73)
Fannin	10	27,025	37.00	47.20	36.75	(11.03, 62.48)
Fayette	Less than 5					
Fisher	Less than 5					
Floyd	Less than 5					
Foard	Less than 5					
Fort Bend	127	371,048	34.23	50.45	31.81*	(25.09, 38.52)
Franklin	7	8,401	83.32	45.76	85.38	(38.52, 132.24)
Freestone	20	15,280	130.89	47.61	128.90**	(94.84, 162.96)
Frio	Less than 5					
Gaines	Less than 5					
Galveston	114	218,670	52.13	48.38	50.53	(41.59, 59.46)
Garza	Less than 5					
Gillespie	7	19,623	35.67	43.39	38.55	(7.06, 70.03)
Glasscock	Less than 5					
Goliad	Less than 5					
Gonzales	Less than 5					
Gray	14	17,400	80.46	46.39	81.31**	(48.98, 113.65)
Grayson	64	93,065	68.77	47.17	68.35**	(54.49, 82.22)
Gregg	75	89,252	84.03	47.77	82.47**	(68.40, 96.54)
Grimes	15	20,431	73.42	47.86	71.93	(42.55, 101.31)
Guadalupe	28	83,867	33.39	48.62	32.19*	(17.81, 46.58)
Hale	7	26,393	26.52	48.72	25.53	(0.00, 51.15)
Hall	Less than 5					
Hamilton	Less than 5					
Hansford	Less than 5					
Hardeman	Less than 5					
Hardin	14	40,163	34.86	47.80	34.19	(13.22, 55.16)
Harris	1,374	2,851,478	48.19	49.83	45.34	(42.90, 47.78)
Harrison	20	49,779	40.18	47.91	39.32	(20.50, 58.13)
Hartley	Less than 5					
Haskell	Less than 5					
Hays	33	103,183	31.98	52.82	28.39*	(15.94, 40.83)
Hemphill	Less than 5					
Henderson	38	64,198	59.19	46.03	60.30	(43.39, 77.20)

Source: Texas Health Care Information Collection. Texas Hospital Inpatient Discharge Public Use Data File, 2008.

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Hidalgo	202	466,319	43.32	49.98	40.63*	(34.61, 46.65)
Hill	8	28,081	28.49	46.69	28.61	(3.24, 53.98)
Hockley	6	17,139	35.01	48.73	33.69	(1.89, 65.48)
Hood	16	40,068	39.93	45.83	40.85	(19.41, 62.29)
Hopkins	6	26,199	22.90	47.00	22.85	(0.00, 49.03)
Houston	8	18,831	42.48	46.54	42.80	(11.77, 73.84)
Howard	26	25,829	100.66	48.38	97.56**	(71.57, 123.55)
Hudspeth	Less than 5					
Hunt	42	65,251	64.37	48.36	62.41	(46.05, 78.76)
Hutchinson	9	17,222	52.26	46.63	52.55	(20.13, 84.97)
Irion	Less than 5					
Jack	Less than 5					
Jackson	5	11,015	45.39	46.78	45.49	(5.02, 85.97)
Jasper	20	27,498	72.73	46.27	73.70**	(47.94, 99.45)
Jeff Davis	Less than 5					
Jefferson	129	189,562	68.05	47.94	66.55**	(56.91, 76.19)
Jim Hogg	Less than 5					
Jim Wells	23	30,247	76.04	48.17	74.02**	(49.95, 98.09)
Johnson	76	114,276	66.51	49.01	63.63**	(51.35, 75.90)
Jones	Less than 5					
Karnes	Less than 5					
Kaufman	31	71,115	43.59	49.39	41.38	(25.88, 56.88)
Kendall	5	23,950	20.88	46.92	20.86	(0.00, 48.27)
Kenedy	Less than 5					
Kent	Less than 5					
Kerr	16	38,710	41.33	43.79	44.25	(21.94, 66.56)
Kimble	Less than 5					
King	Less than 5					
Kinney	Less than 5					
Kleberg	10	23,062	43.36	50.44	40.31	(13.37, 67.24)
Knox	Less than 5					
Lamar	22	38,769	56.75	46.37	57.38	(35.71, 79.05)
Lamb	Less than 5					
Lampasas	8	16,455	48.62	47.09	48.41	(15.40, 81.41)
La Salle	Less than 5					
Lavaca	Less than 5					

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Lee	Less than 5					
Leon	Less than 5					
Liberty	27	58,057	46.51	48.66	44.81	(27.52, 62.09)
Limestone	13	17,905	72.61	47.20	72.12	(40.52, 103.72)
Lipscomb	Less than 5					
Live Oak	Less than 5					
Llano	Less than 5					
Loving	Less than 5					
Lubbock	170	196,532	86.50	50.22	80.75**	(71.51, 90.00)
Lynn	Less than 5					
McCulloch	Less than 5					
McLennan	98	173,684	56.42	49.57	53.37	(43.47, 63.27)
McMullen	Less than 5					
Madison	6	10,949	54.80	49.26	52.16	(12.60, 91.72)
Marion	Less than 5					
Martin	Less than 5					
Mason	Less than 5					
Matagorda	12	28,312	42.38	47.46	41.87	(16.81, 66.93)
Maverick	13	35,112	37.02	48.89	35.51	(13.33, 57.68)
Medina	6	33,796	17.75	48.31	17.23*	(0.00, 39.96)
Menard	Less than 5					
Midland	66	92,884	71.06	48.50	68.69**	(55.00, 82.37)
Milam	8	19,306	41.44	46.09	42.15	(11.36, 72.95)
Mills	Less than 5					
Mitchell	Less than 5					
Montague	Less than 5					
Montgomery	112	303,223	36.94	49.26	35.16*	(27.64, 42.68)
Moore	10	14,082	71.01	48.85	68.15	(33.13, 103.18)
Morris	5	10,398	48.09	45.54	49.51	(7.29, 91.73)
Motley	Less than 5					
Nacogdoches	18	47,729	37.71	50.98	34.68	(16.06, 53.31)
Navarro	17	38,032	44.70	47.95	43.70	(22.19, 65.22)
Newton	12	11,322	105.99	46.82	106.14**	(66.23, 146.04)
Nolan	Less than 5					
Nueces	192	241,491	79.51	48.44	76.96**	(68.47, 85.46)
Ochiltree	Less than 5					

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Oldham	Less than 5					
Orange	28	65,660	42.64	47.11	42.44	(25.92, 58.96)
Palo Pinto	9	21,712	41.45	46.42	41.87	(12.93, 70.81)
Panola	8	18,309	43.69	46.49	44.06	(12.57, 75.55)
Parker	35	83,886	41.72	48.69	40.17	(25.80, 54.55)
Parmer	Less than 5					
Pecos	Less than 5					
Polk	18	38,503	46.75	45.77	47.89	(26.00, 69.77)
Potter	66	89,198	73.99	48.84	71.03**	(57.11, 84.95)
Presidio	Less than 5					
Rains	Less than 5					
Randall	36	87,242	41.26	49.15	39.36	(25.33, 53.39)
Reagan	Less than 5					
Real	Less than 5					
Red River	8	10,920	73.26	44.81	76.65	(35.12, 118.18)
Reeves	Less than 5					
Refugio	Less than 5					
Roberts	Less than 5					
Robertson	13	12,368	105.11	46.02	107.09**	(68.58, 145.60)
Rockwall	17	52,789	32.20	49.83	30.30	(12.39, 48.21)
Runnels	7	8,315	84.19	44.91	87.88	(40.34, 135.42)
Rusk	12	38,637	31.06	47.35	30.76	(9.28, 52.24)
Sabine	Less than 5					
San Augustine	Less than 5					
San Jacinto	Less than 5					
San Patricio	33	50,607	65.21	48.31	63.29	(44.71, 81.87)
San Saba	Less than 5					
Schleicher	Less than 5					
Scurry	Less than 5					
Shackelford	Less than 5					
Shelby	9	20,343	44.24	46.94	44.19	(14.46, 73.92)
Sherman	Less than 5					
Smith	141	150,121	93.92	47.57	92.58**	(81.71, 103.45)
Somervell	Less than 5					
Starr	8	40,125	19.94	49.68	18.82*	(0.00, 39.39)
Stephens	Less than 5					

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Sterling	Less than 5					
Stonewall	Less than 5					
Sutton	Less than 5					
Swisher	Less than 5					
Tarrant	766	1,244,658	61.54	49.63	58.14**	(54.44, 61.84)
Taylor	70	95,116	73.59	48.87	70.61**	(57.14, 84.09)
Terrell	Less than 5					
Terry	Less than 5					
Throckmorton	Less than 5					
Titus	16	21,764	73.52	48.39	71.22	(42.91, 99.53)
Tom Green	47	80,261	58.56	48.22	56.94	(42.17, 71.71)
Travis	272	713,986	38.10	51.29	34.83*	(30.03, 39.63)
Trinity	11	11,681	94.17	44.28	99.70**	(59.31, 140.10)
Tyler	Less than 5					
Upshur	12	29,849	40.20	46.76	40.31	(15.72, 64.90)
Upton	Less than 5					
Uvalde	7	19,615	35.69	47.74	35.05	(5.03, 65.07)
Val Verde	8	34,398	23.26	47.05	23.17*	(0.34, 46.01)
Van Zandt	24	42,097	57.01	46.16	57.91	(37.07, 78.75)
Victoria	34	64,596	52.63	47.63	51.81	(35.25, 68.37)
Walker	41	54,283	75.53	53.47	66.23**	(49.17, 83.28)
Waller	Less than 5					
Ward	7	7,732	90.53	46.76	90.77	(42.46, 139.09)
Washington	Less than 5					
Webb	62	149,300	41.53	50.42	38.62	(28.03, 49.21)
Wharton	18	31,180	57.73	47.63	56.82	(32.98, 80.66)
Wheeler	Less than 5					
Wichita	75	96,264	77.91	48.73	74.97**	(61.55, 88.38)
Wilbarger	Less than 5					
Willacy	6	14,825	40.47	49.08	38.66	(4.60, 72.72)
Williamson	89	264,138	33.69	49.89	31.66*	(23.66, 39.67)
Wilson	11	30,027	36.63	48.44	35.45	(11.37, 59.54)
Winkler	Less than 5					
Wise	37	45,104	82.03	48.59	79.16**	(59.53, 98.78)
Wood	16	34,584	46.26	45.20	47.98	(24.75, 71.22)
Yoakum	Less than 5					

Texas Health Care Information Collection
Diabetes Short-Term Complication Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions
* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval
** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Young	Less than 5					
Zapata	6	9,432	63.61	48.12	61.98	(18.86, 105.10)
Zavala	Less than 5					

Source: Texas Health Care Information Collection. Texas Hospital Inpatient Discharge Public Use Data File, 2008.